

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Lincoln	32,153	12,224	\$14,890	\$31,187	\$41,053	14.2	33.57	1276.32	91.73
Love	9,155	3,565	\$16,648	\$32,558	\$41,399	14.2	17.76	691.75	100.00
Major	7,112	2,881	\$17,272	\$30,949	\$43,895	9.8	7.43	301.08	100.00
Mayes	39,912	15,405	\$15,350	\$31,125	\$37,044	17.3	60.83	2347.75	78.98
McClain	32,365	12,057	\$18,158	\$37,275	\$52,822	10	56.81	2116.49	81.12
McIntosh	19,698	8,196	\$16,410	\$25,964	\$30,076	20.8	31.77	1321.87	90.41
Murray	12,784	5,085	\$16,084	\$30,294	\$40,268	16.8	30.57	1215.78	68.28
Muskogee	71,278	27,149	\$14,828	\$28,438	\$34,727	19.7	87.58	3335.88	35.73
Noble	11,169	4,431	\$17,022	\$33,968	\$42,503	13.7	15.26	605.41	51.81
Okfuskee	11,172	4,039	\$12,746	\$24,324	\$30,527	23.7	17.88	646.48	71.41
Okmulgee	39,219	15,128	\$14,065	\$27,652	\$37,460	20.3	56.27	2170.56	46.13
Ottawa	31,849	12,499	\$14,478	\$27,507	\$34,873	19.6	67.57	2651.92	50.49
Pawnee	16,307	6,255	\$15,261	\$31,661	\$39,489	15.8	28.64	1098.45	80.61
Payne	78,280	30,686	\$15,983	\$28,733	\$39,364	18.7	114.05	4471.01	31.83
Pittsburg	45,115	17,631	\$15,494	\$28,679	\$39,722	17.2	34.55	1350.07	55.91
Pontotoc	36,999	14,748	\$14,664	\$26,955	\$34,465	19.4	51.41	2049.34	49.75
Pottawatomie	69,616	26,111	\$15,972	\$31,573	\$42,013	16.5	88.38	3314.84	48.77
Pushmataha	11,710	4,729	\$12,864	\$22,127	\$27,771	25.8	8.38	338.46	100.00
Roger Mills	3,404	1,417	\$16,821	\$30,078	\$45,159	11.5	2.98	124.07	100.00
Seminole	24,200	9,313	\$13,956	\$25,568	\$31,547	22	38.26	1472.37	62.22
Stephens	43,498	17,614	\$16,357	\$30,709	\$43,581	13	49.77	2015.23	41.41
Texas	20,283	7,197	\$15,692	\$35,872	\$44,775	12.2	9.96	353.31	51.02
Tillman	7,899	3,065	\$14,270	\$24,828	\$31,463	21.9	9.06	351.55	51.06
Washington	50,452	20,807	\$20,250	\$35,816	\$45,023	13.2	121.04	4992.01	20.01
Washita	11,709	4,609	\$15,528	\$29,563	\$41,971	14.9	11.67	459.38	73.40
Woods	8,422	3,431	\$17,487	\$28,927	\$38,676	16.6	6.55	266.70	39.83

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Woodward	19,838	7,625	\$16,734	\$33,581	\$49,087	12.8	15.97	613.75	37.41
Oregon									
Grant	6,916	2,833	\$16,794	\$32,560	\$34,846	15.2	1.53	62.55	100.00
Lake	7,239	3,022	\$16,136	\$29,506	\$36,215	17.9	0.89	37.14	61.02
Morrow	11,140	3,834	\$15,802	\$37,521	\$50,173	14.2	5.48	188.64	53.86
Wallowa	6,760	2,849	\$17,276	\$32,129	\$42,559	13.9	2.15	90.57	100.00
Wheeler	1,319	553	\$15,884	\$28,750	\$32,231	16.8	0.77	32.27	100.00
Puerto Rico									
Adjuntas	18,338	5,666	\$4,975	\$9,888	NA	NA	274.97	8496.17	42.06
Aguada	46,036	14,814	\$6,100	\$11,384	NA	NA	1,488.54	47900.73	0.00
Aguadilla	67,491	23,041	\$6,996	\$11,476	NA	NA	1,844.48	62969.14	0.00
Aguas Buenas	31,601	10,059	\$7,034	\$12,957	NA	NA	1,033.89	32908.97	5.68
Aibonito	27,129	8,617	\$6,579	\$12,725	NA	NA	867.04	27539.93	12.40
Arecibo	102,645	35,084	\$7,290	\$12,496	NA	NA	814.72	27847.16	8.69
Arroyo	18,954	6,107	\$5,797	\$11,484	NA	NA	1,260.15	40605.20	4.02
Añasco	30,300	10,048	\$6,613	\$12,620	NA	NA	771.51	25585.52	10.24
Barceloneta	23,106	7,772	\$6,938	\$11,706	NA	NA	1,238.50	41656.98	1.55
Barranquitas	30,544	9,143	\$4,978	\$11,322	NA	NA	892.61	26720.53	4.06
Bayamón	219,740	72,217	\$9,234	\$19,861	NA	NA	4,951.07	162716.72	0.00
Cabo Rojo	53,849	19,691	\$8,070	\$13,580	NA	NA	765.41	27988.88	21.44
Caguas	143,176	47,868	\$8,632	\$16,522	NA	NA	2,440.16	81581.97	0.73
Camuy	39,851	12,955	\$6,380	\$13,168	NA	NA	858.38	27903.93	12.65
Canóvanas	47,666	14,823	\$5,917	\$13,034	NA	NA	1,451.14	45126.62	3.13
Carolina	187,438	64,077	\$10,511	\$21,236	NA	NA	4,135.14	141361.92	0.19
Cataño	26,074	8,361	\$8,369	\$12,852	NA	NA	5,404.08	173295.03	0.00
Cayey	47,193	15,565	\$7,027	\$13,452	NA	NA	909.38	29991.99	8.29

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Ceiba	17,802	5,667	\$9,256	\$16,440	NA	NA	612.95	19511.17	5.03
Ciales	20,658	6,320	\$5,634	\$10,981	NA	NA	309.96	9482.88	27.77
Cidra	48,548	15,041	\$7,877	\$15,557	NA	NA	1,345.07	41673.65	5.56
Coamo	39,816	12,455	\$6,102	\$12,064	NA	NA	510.18	15959.19	20.48
Comerio	19,276	6,099	\$4,972	\$10,892	NA	NA	678.96	21483.58	14.79
Corozal	39,000	11,887	\$5,394	\$11,786	NA	NA	915.74	27911.67	4.83
Culebra	2,138	806	\$8,901	\$17,008	NA	NA	184.02	6935.19	100.00
Dorado	36,630	11,713	\$8,765	\$16,460	NA	NA	1,570.18	50206.76	1.70
Fajardo	42,270	14,679	\$7,852	\$15,410	NA	NA	1,415.07	49141.11	4.40
Florida	16,067	5,168	\$5,164	\$11,123	NA	NA	1,057.44	34013.88	19.53
Guayama	45,298	14,549	\$7,326	\$12,112	NA	NA	696.14	22359.33	9.60
Guayanilla	23,686	7,378	\$5,954	\$11,361	NA	NA	559.14	17417.24	9.97
Guaynabo	102,956	35,080	\$16,287	\$26,211	NA	NA	3,795.29	129316.69	0.14
Gurabo	43,764	14,012	\$8,819	\$16,451	NA	NA	1,571.92	50328.04	3.66
Guánica	22,824	7,585	\$5,204	\$9,721	NA	NA	615.06	20440.21	6.25
Hatillo	43,658	14,236	\$6,773	\$12,378	NA	NA	1,044.88	34072.50	6.66
Hormigueros	17,648	6,179	\$9,024	\$16,745	NA	NA	1,558.39	54563.51	0.64
Humacao	60,809	19,874	\$7,677	\$14,345	NA	NA	1,358.25	44390.81	0.45
Isabela	48,134	16,224	\$6,816	\$11,685	NA	NA	869.41	29303.74	3.99
Jayuya	18,343	5,377	\$5,156	\$11,220	NA	NA	411.38	12060.26	34.00
Juana Díaz	53,223	15,745	\$5,632	\$12,892	NA	NA	882.77	26115.76	8.30
Juncos	41,221	13,503	\$6,369	\$13,072	NA	NA	1,550.48	50790.69	1.97
Lajas	28,027	9,627	\$7,691	\$11,384	NA	NA	466.32	16016.97	24.87
Lares	37,961	12,133	\$4,634	\$9,685	NA	NA	617.63	19741.03	24.19
Las Marías	12,216	3,939	\$5,066	\$9,472	NA	NA	263.63	8501.62	65.49
Las Piedras	39,893	12,922	\$6,427	\$14,622	NA	NA	1,177.34	38135.16	7.17

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Loíza	33,778	9,980	\$5,283	\$11,200	NA	NA	1,737.23	51326.25	0.52
Luquillo	20,561	6,824	\$7,529	\$13,631	NA	NA	800.11	26554.57	5.38
Manatí	49,845	16,783	\$7,502	\$12,796	NA	NA	1,103.65	37159.22	7.11
Maricao	6,310	1,972	\$5,224	\$9,243	NA	NA	172.27	5382.46	53.48
Maunabo	12,668	3,988	\$5,400	\$11,638	NA	NA	602.17	18956.86	7.76
Mayagüez	92,996	32,812	\$8,003	\$11,775	NA	NA	1,197.89	42265.92	2.29
Moca	44,891	14,410	\$5,664	\$11,271	NA	NA	892.70	28656.14	5.21
Morovis	32,995	9,682	\$5,748	\$12,090	NA	NA	848.79	24906.99	7.78
Naguabo	24,342	8,073	\$6,960	\$11,461	NA	NA	470.84	15616.05	9.61
Naranjito	29,901	8,978	\$5,634	\$12,484	NA	NA	1,101.19	33062.78	0.00
Orocovis	24,870	7,415	\$4,637	\$9,945	NA	NA	391.71	11678.75	27.75
Patillas	19,941	6,526	\$5,950	\$12,021	NA	NA	427.04	13975.47	27.68
Peñuelas	29,575	8,557	\$5,096	\$12,194	NA	NA	666.77	19292.65	12.76
Ponce	179,353	57,432	\$7,276	\$12,998	NA	NA	1,563.38	50062.58	3.99
Quebradillas	28,129	9,179	\$6,209	\$12,210	NA	NA	1,241.86	40525.11	4.51
Rincón	16,615	5,794	\$6,610	\$11,460	NA	NA	1,163.43	40574.59	0.00
Río Grande	56,695	17,827	\$7,347	\$15,006	NA	NA	933.61	29357.00	12.52
Sabana Grande	27,728	9,492	\$6,164	\$12,485	NA	NA	772.67	26449.96	8.18
Salinas	32,241	10,560	\$6,133	\$11,391	NA	NA	465.83	15258.03	9.08
San Germán	37,638	13,005	\$7,944	\$13,089	NA	NA	690.49	23858.67	6.78
San Juan	422,665	159,023	\$12,437	\$17,367	NA	NA	8,839.48	332574.79	0.00
San Lorenzo	44,842	14,363	\$6,856	\$12,226	NA	NA	843.70	27022.89	14.27
San Sebastián	48,095	16,249	\$5,681	\$10,962	NA	NA	682.45	23056.24	11.98
Santa Isabel	22,925	7,171	\$5,903	\$11,895	NA	NA	671.53	21005.94	20.56
Toa Alta	81,959	24,891	\$8,568	\$20,134	NA	NA	2,994.79	90950.65	0.00
Toa Baja	94,799	30,704	\$8,666	\$18,331	NA	NA	4,092.87	132563.07	0.00

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Trujillo Alto	87,083	27,772	\$10,936	\$21,980	NA	NA	4,197.29	133859.02	0.00
Utuado	34,339	10,879	\$5,086	\$9,948	NA	NA	302.68	9589.47	32.84
Vega Alta	39,723	12,468	\$7,356	\$13,495	NA	NA	1,431.46	44929.98	3.48
Vega Baja	64,879	20,725	\$7,279	\$13,933	NA	NA	1,413.74	45161.57	3.38
Vieques	9,252	3,383	\$6,562	\$9,331	NA	NA	182.02	6656.48	14.47
Villalba	30,367	8,398	\$5,176	\$11,728	NA	NA	856.77	23693.01	16.80
Yabucoa	40,559	12,617	\$6,125	\$12,292	NA	NA	734.06	22835.65	5.49
Yauco	48,481	15,707	\$6,434	\$11,924	NA	NA	711.42	23049.43	11.78
South Carolina									
Bamberg	15,307	5,609	\$12,584	\$24,007	\$30,305	28	38.92	1426.31	55.54
Barnwell	22,872	8,840	\$15,870	\$28,591	\$35,460	22	41.71	1611.88	84.24
Calhoun	14,583	5,710	\$17,446	\$32,736	\$38,803	17.2	38.35	1501.82	100.00
Chester	32,618	12,330	\$14,709	\$32,425	\$35,886	19.7	56.19	2123.95	67.42
Chesterfield	42,882	16,642	\$14,233	\$29,483	\$34,492	20.6	53.70	2083.93	72.88
Clarendon	33,149	12,035	\$13,998	\$27,131	\$32,725	25	54.59	1982.01	86.77
Darlington	67,031	25,713	\$16,283	\$31,087	\$37,650	21.9	119.45	4582.20	53.93
Dillon	30,698	11,201	\$13,272	\$26,630	\$30,935	23.9	75.83	2766.82	64.31
Dorchester	127,133	45,741	\$18,840	\$43,316	\$60,254	10.1	221.21	7958.64	27.73
Fairfield	23,435	8,750	\$14,911	\$30,376	\$35,880	21.7	34.13	1274.40	74.38
Kershaw	58,901	22,606	\$18,360	\$38,804	\$44,446	13.9	81.10	3112.72	62.25
Lancaster	75,913	28,740	\$16,276	\$34,688	\$39,898	16.9	138.28	5235.12	59.57
Lee	19,891	6,815	\$13,896	\$26,907	\$30,876	27.6	48.48	1660.96	78.07
Lexington	248,518	95,907	\$21,063	\$44,659	\$52,515	10.6	355.41	13715.61	33.76
Marion	33,843	12,669	\$13,878	\$26,526	\$30,832	24.1	69.20	2590.55	58.38
Marlboro	28,704	10,417	\$13,385	\$26,598	\$30,749	27.5	59.84	2171.46	47.71
McCormick	10,093	3,591	\$14,770	\$31,577	\$37,676	19.5	28.07	998.72	100.00

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Oconee	71,274	29,405	\$18,965	\$36,666	\$42,668	16.1	113.96	4701.75	72.61
Orangeburg	90,336	33,707	\$15,057	\$29,567	\$32,694	23.8	81.67	3047.23	67.39
Richland	364,001	136,251	\$20,794	\$39,961	\$49,653	14.3	481.22	18012.72	12.00
Saluda	18,625	6,934	\$16,328	\$35,774	\$40,295	16.7	41.16	1532.45	84.46
Sumter	104,148	37,539	\$15,657	\$33,278	\$38,167	19.5	156.52	5641.58	37.83
York	217,448	80,703	\$20,536	\$44,539	\$51,636	12	318.63	11825.34	34.90
South Dakota									
Aurora	2,867	1,101	\$13,887	\$29,783	\$40,874	11.8	4.05	155.42	100.00
Bennett	3,393	1,058	\$10,106	\$25,313	\$30,560	33.8	2.86	89.23	100.00
Bon Homme	7,079	2,573	\$13,892	\$30,644	\$40,010	14.2	12.57	456.78	100.00
Buffalo	2,142	548	\$5,213	\$12,692	\$19,182	37.7	4.55	116.48	100.00
Campbell	1,352	545	\$14,117	\$28,793	\$36,665	11.6	1.84	74.04	100.00
Charles Mix	8,906	3,171	\$11,502	\$26,060	\$31,548	22.8	8.11	288.90	100.00
Clark	3,436	1,319	\$15,597	\$30,208	\$40,536	12.9	3.59	137.66	100.00
Corson	4,136	1,266	\$8,615	\$20,654	\$27,591	34.9	1.67	51.20	100.00
Custer	7,811	3,194	\$17,945	\$36,303	\$42,952	10.3	5.01	205.06	100.00
Day	5,526	2,298	\$15,856	\$30,227	\$38,189	13.5	5.37	223.40	100.00
Deuel	4,276	1,765	\$15,977	\$31,788	\$44,641	9.4	6.86	283.11	100.00
Dewey	5,931	1,842	\$9,251	\$23,272	\$31,716	27.5	2.58	80.01	100.00
Douglas	2,945	1,119	\$13,827	\$28,478	\$40,054	13.2	6.79	258.13	100.00
Edmunds	4,034	1,532	\$16,149	\$32,205	\$53,372	11.3	3.52	133.77	100.00
Fall River	7,145	2,981	\$17,048	\$29,631	\$35,823	15	4.11	171.31	51.10
Faulk	2,255	869	\$14,660	\$30,237	\$40,976	13.4	2.25	86.86	100.00
Gregory	4,084	1,719	\$13,656	\$22,732	\$31,030	17.7	4.02	169.20	100.00
Haakon	1,819	717	\$16,780	\$29,894	\$39,781	11.1	1.00	39.57	100.00
Hamlin	5,660	2,076	\$16,982	\$33,851	\$47,147	10.7	11.17	409.58	100.00

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Hand	3,274	1,339	\$18,735	\$32,377	\$43,150	10.2	2.28	93.21	100.00
Hanson	3,609	1,297	\$14,778	\$33,049	\$51,048	7.6	8.30	298.30	100.00
Harding	1,145	442	\$12,794	\$25,000	\$36,549	12.3	0.43	16.54	100.00
Hutchinson	7,250	2,870	\$15,922	\$30,026	\$41,976	12.2	8.92	353.14	100.00
Hyde	1,424	579	\$16,356	\$31,103	\$39,102	13.1	1.65	67.31	100.00
Jackson	2,711	873	\$9,981	\$23,945	\$28,119	32.4	1.45	46.73	100.00
Jerauld	1,982	852	\$16,856	\$30,690	\$39,198	14.1	3.74	160.69	100.00
Jones	1,024	431	\$15,896	\$30,288	\$36,824	14.5	1.06	44.40	100.00
Lyman	3,811	1,362	\$13,862	\$28,509	\$36,466	21.6	2.32	83.05	100.00
Marshall	4,320	1,730	\$15,462	\$30,567	\$39,006	13.3	5.16	206.57	100.00
McCook	5,671	2,139	\$16,374	\$35,396	\$45,644	8.6	9.87	372.36	100.00
McPherson	2,480	1,058	\$12,748	\$22,380	\$31,709	15.4	2.18	93.07	100.00
Mellette	1,982	652	\$10,362	\$23,219	\$28,866	34.3	1.52	49.89	100.00
Miner	2,435	1,030	\$15,155	\$29,519	\$39,067	11.8	4.27	180.61	100.00
Perkins	2,900	1,237	\$15,734	\$27,750	\$34,673	15	1.01	43.06	100.00
Potter	2,123	891	\$17,417	\$30,086	\$41,305	10.6	2.45	102.81	100.00
Roberts	9,851	3,623	\$13,428	\$28,322	\$36,451	18.1	8.95	329.01	100.00
Sanborn	2,447	947	\$18,301	\$33,375	\$42,988	13.5	4.30	166.39	100.00
Shannon	13,637	3,029	\$6,286	\$20,916	\$25,867	46	6.51	144.66	76.21
Sully	1,356	542	\$17,407	\$32,500	\$46,373	8.2	1.35	53.83	100.00
Todd	10,167	2,779	\$7,714	\$20,035	\$27,236	40.1	7.32	200.22	100.00
Tripp	5,681	2,234	\$13,776	\$28,333	\$35,875	18.5	3.52	138.43	49.44
Turner	8,366	3,332	\$17,343	\$36,059	\$48,157	8	13.56	540.13	100.00
Walworth	5,238	2,196	\$15,492	\$27,834	\$37,410	16.1	7.40	310.31	43.19
Ziebach	2,542	746	\$7,463	\$18,063	\$25,592	54.4	1.30	38.00	100.00
Tennessee									

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Bledsoe	13,142	4,688	\$13,889	\$28,982	\$33,640	23.9	32.34	1153.90	100.00
Cannon	13,804	5,377	\$16,405	\$32,809	\$40,527	15.3	51.96	2024.12	100.00
Clay	7,794	3,307	\$13,320	\$23,958	\$28,831	21.4	33.01	1400.53	100.00
DeKalb	18,694	7,509	\$17,217	\$30,359	\$37,016	19.7	61.38	2465.29	80.13
Dyer	37,600	14,902	\$16,451	\$32,788	\$39,484	17.7	73.65	2919.17	41.65
Fentress	17,667	7,152	\$12,999	\$23,238	\$28,547	23.5	35.43	1434.27	100.00
Gibson	49,257	19,947	\$16,320	\$31,105	\$36,782	17.1	81.73	3309.84	48.43
Hancock	6,693	2,734	\$11,986	\$19,760	\$23,526	30.8	30.11	1229.92	100.00
Haywood	19,024	7,282	\$14,669	\$27,671	\$32,860	21.9	35.68	1365.73	48.02
Houston	8,137	3,243	\$15,614	\$29,968	\$34,131	19.6	40.64	1619.56	100.00
Jackson	10,847	4,416	\$15,020	\$26,502	\$31,276	22.4	35.12	1429.74	100.00
Lake	7,323	2,216	\$10,794	\$21,995	\$26,739	37.8	44.81	1356.07	100.00
Lauderdale	26,692	9,413	\$13,682	\$29,751	\$32,679	23.6	56.74	2000.80	55.57
Marshall	29,731	11,428	\$17,749	\$38,457	\$41,157	14.4	79.21	3044.67	61.48
Perry	7,753	3,098	\$16,969	\$28,061	\$33,179	19	18.69	746.64	100.00
Pickett	4,801	2,027	\$14,681	\$24,673	\$29,422	19.8	29.47	1244.31	100.00
Scott	22,039	8,576	\$12,927	\$24,093	\$28,422	24.8	41.42	1611.72	82.80
Wayne	16,614	5,829	\$14,472	\$26,576	\$32,471	20.7	22.64	794.18	100.00
Texas									
Armstrong	2,123	800	\$17,151	\$38,194	\$47,097	10	2.32	87.52	100.00
Atascosa	43,877	14,571	\$14,276	\$33,081	\$41,883	18.2	35.61	1182.61	62.09
Austin	26,851	9,944	\$18,140	\$38,615	\$49,721	10.6	41.15	1523.71	65.64
Bailey	6,279	2,225	\$12,979	\$27,901	\$33,331	17.4	7.60	269.19	37.29
Bandera	20,303	8,114	\$19,635	\$39,013	\$48,688	13.2	25.64	1024.89	100.00
Baylor	3,737	1,633	\$16,384	\$24,627	\$32,236	18	4.29	187.58	50.32
Blanco	9,082	3,573	\$19,721	\$39,369	\$49,446	10.6	12.77	502.39	100.00

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Borden	593	238	\$18,364	\$29,205	\$44,822	9	0.66	26.52	100.00
Bowie	92,283	34,154	\$17,357	\$33,001	\$39,531	19.3	103.94	3846.72	33.90
Brewster	9,331	3,867	\$15,183	\$27,386	\$34,189	17.1	1.51	62.44	36.22
Briscoe	1,462	589	\$14,218	\$29,917	\$34,442	15.3	1.62	65.41	100.00
Calhoun	20,406	7,347	\$17,125	\$35,849	\$43,123	15.7	39.83	1434.12	53.34
Callahan	13,533	5,311	\$15,204	\$32,463	\$41,493	14.7	15.06	591.07	75.05
Camp	12,666	4,775	\$16,500	\$31,164	\$38,435	17.1	64.13	2417.64	64.23
Carson	6,251	2,381	\$19,368	\$40,285	\$50,493	8.5	6.77	257.92	97.09
Cass	29,284	11,724	\$15,777	\$28,441	\$36,378	18.2	31.24	1250.76	81.81
Castro	7,129	2,381	\$14,457	\$30,619	\$36,748	19.9	7.94	265.04	47.44
Childress	7,536	2,436	\$12,452	\$27,457	\$33,634	25.4	10.61	342.92	20.01
Clay	10,888	4,290	\$16,361	\$35,738	\$48,445	11	9.92	390.73	74.06
Cochran	2,977	1,050	\$13,125	\$27,525	\$34,388	22.3	3.84	135.39	100.00
Coke	3,480	1,385	\$16,734	\$29,085	\$35,848	15	3.87	154.11	100.00
Collingsworth	2,985	1,202	\$15,318	\$25,438	\$31,486	20.4	3.25	130.82	100.00
Colorado	20,734	7,753	\$16,910	\$32,425	\$39,441	17.9	21.53	805.09	64.20
Concho	3,610	958	\$15,727	\$31,313	\$37,505	25.4	3.64	96.67	100.00
Cooke	38,407	14,416	\$17,889	\$37,649	\$49,705	11.9	43.96	1650.14	58.48
Cottle	1,617	696	\$16,212	\$25,446	\$29,462	21.3	1.79	77.28	100.00
Crane	4,017	1,369	\$15,374	\$32,194	\$50,114	10.6	5.11	174.29	9.46
Crosby	6,192	2,206	\$14,445	\$25,769	\$33,294	23.6	6.88	245.29	100.00
Dallam	6,267	2,340	\$13,653	\$27,946	\$37,192	13.6	4.16	155.50	26.88
Dawson	13,692	4,291	\$15,011	\$28,211	\$40,590	21.7	15.18	475.67	21.33
DeWitt	19,596	7,083	\$14,780	\$28,714	\$40,225	19.3	21.55	779.08	59.63
Dickens	2,450	867	\$13,156	\$25,898	\$30,343	26.8	2.71	95.84	100.00
Dimmit	9,758	3,140	\$9,765	\$21,917	\$27,895	33.4	7.33	235.95	42.73

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Donley	3,850	1,564	\$15,958	\$29,006	\$35,875	17.4	4.14	168.21	100.00
Duval	12,033	3,991	\$11,324	\$22,416	\$33,127	26.5	6.71	222.60	51.47
Eastland	18,186	7,280	\$14,870	\$26,832	\$35,258	18.9	19.64	786.12	64.75
Ector	131,941	47,718	\$15,031	\$31,152	\$46,868	15.5	146.43	5295.84	7.86
Edwards	1,952	726	\$12,691	\$25,298	\$31,434	22.2	0.92	34.24	100.00
Falls	16,900	5,930	\$14,311	\$26,589	\$32,844	24.2	21.97	771.03	63.27
Fisher	3,912	1,615	\$15,120	\$27,659	\$34,838	15.6	4.34	179.18	100.00
Floyd	6,455	2,270	\$14,206	\$26,851	\$32,794	21.9	6.51	228.80	52.44
Foard	1,361	561	\$14,799	\$25,813	\$30,176	17.5	1.93	79.44	100.00
Franklin	11,001	4,349	\$17,563	\$31,955	\$39,830	15.4	38.51	1522.45	94.84
Freestone	18,923	6,977	\$16,338	\$31,283	\$41,153	14.5	21.57	795.21	66.50
Frio	16,163	4,703	\$16,069	\$24,504	\$31,072	28.2	14.27	415.09	29.75
Gaines	15,081	4,896	\$13,088	\$30,432	\$40,489	17.2	10.04	325.91	56.51
Garza	4,628	1,602	\$12,704	\$27,206	\$37,815	22.1	5.17	178.83	37.86
Glasscock	1,212	408	\$18,279	\$35,655	\$52,364	9	1.35	45.27	100.00
Goliad	7,152	2,723	\$17,126	\$34,201	\$45,273	14.2	8.38	319.07	100.00
Gray	22,248	8,597	\$16,702	\$31,368	\$44,888	14.7	23.97	926.16	17.04
Gregg	117,528	45,001	\$18,449	\$35,006	\$45,792	14.1	428.89	16422.07	19.43
Hale	35,234	11,503	\$13,655	\$31,280	\$35,802	19.1	35.07	1145.01	25.81
Hansford	5,280	1,989	\$17,408	\$35,438	\$45,291	12	5.74	216.29	44.74
Hardeman	3,984	1,653	\$16,824	\$28,312	\$34,007	17.6	5.73	237.71	41.26
Hartley	5,162	1,482	\$18,067	\$46,327	\$54,316	10.4	3.53	101.37	45.11
Haskell	5,216	2,201	\$14,918	\$23,690	\$32,817	22.2	5.78	243.75	61.18
Hemphill	3,472	1,321	\$16,929	\$35,456	\$56,489	8.7	3.82	145.22	100.00
Hill	35,637	13,489	\$15,514	\$31,600	\$38,020	16.3	37.03	1401.67	78.51
Hockley	22,205	7,803	\$15,022	\$31,085	\$42,371	17.6	24.45	859.14	39.82

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Houston	22,698	8,094	\$14,525	\$28,119	\$33,272	26.1	18.44	657.60	73.86
Howard	32,537	11,041	\$15,027	\$30,805	\$38,661	21.2	36.04	1222.93	23.89
Hudspeth	3,137	1,032	\$9,549	\$21,045	\$26,625	30.1	0.69	22.58	100.00
Hutchinson	21,512	8,370	\$17,317	\$36,588	\$49,548	11.7	24.24	943.20	22.86
Jackson	14,146	5,249	\$16,693	\$35,254	\$44,278	13.4	17.05	632.81	61.45
Jasper	34,374	12,979	\$15,636	\$30,902	\$38,264	20.5	36.67	1384.54	79.56
Jeff Davis	2,275	923	\$18,846	\$32,212	\$42,055	12.2	1.00	40.74	100.00
Jim Hogg	5,016	1,725	\$12,185	\$25,833	\$33,104	22.8	4.42	151.82	22.01
Jones	19,197	5,674	\$13,656	\$29,572	\$37,797	23.6	20.62	609.42	78.34
Karnes	15,051	4,363	\$13,603	\$26,526	\$33,394	27.5	20.06	581.55	54.08
Kenedy	388	129	\$17,959	\$25,000	\$29,587	16.4	0.27	8.88	100.00
Kent	708	289	\$17,626	\$30,433	\$35,804	11.4	0.78	32.06	100.00
King	281	88	\$12,321	\$35,625	\$44,939	12.3	0.31	9.60	100.00
Kinney	3,233	1,250	\$15,350	\$28,320	\$35,576	21.5	2.37	91.65	100.00
Kleberg	30,739	10,638	\$13,542	\$29,313	\$36,659	24.2	35.29	1221.35	18.25
Knox	3,393	1,333	\$13,443	\$25,453	\$31,469	21.1	4.00	157.02	100.00
La Salle	5,861	1,819	\$9,692	\$21,857	\$29,778	29.1	3.94	122.20	33.58
Lamar	49,286	19,357	\$17,000	\$31,609	\$37,104	17.4	53.76	2111.36	43.80
Lamb	13,585	4,951	\$15,169	\$27,898	\$35,137	21.3	13.37	487.23	56.96
Lavaca	18,652	7,437	\$16,398	\$29,132	\$43,814	13.1	19.23	766.83	83.21
Leon	16,859	6,829	\$17,599	\$30,981	\$41,212	14.8	15.73	637.04	100.00
Lipscomb	2,981	1,179	\$16,328	\$31,964	\$46,490	12.2	3.20	126.48	100.00
Live Oak	11,247	3,861	\$15,886	\$32,057	\$43,376	17.8	10.85	372.61	83.60
Loving	42	19	\$24,084	\$40,000	\$50,221	14.3	0.06	2.79	100.00
Lynn	5,783	2,089	\$14,090	\$26,694	\$35,256	19.6	6.48	234.22	55.52
Madison	13,382	4,071	\$14,056	\$29,418	\$36,650	21.8	28.49	866.92	67.69

APPENDIX C

**Unserved Areas
By County or County Equivalent**

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Marion	10,544	4,438	\$14,535	\$25,347	\$31,510	21.6	27.66	1164.17	100.00
Martin	4,513	1,556	\$15,647	\$31,836	\$43,492	15.9	4.93	170.06	49.05
Maverick	52,279	14,472	\$8,758	\$21,232	\$29,787	26.5	40.84	1130.57	12.25
McMullen	837	352	\$22,258	\$32,500	\$40,033	13.6	0.75	31.64	100.00
Medina	44,275	14,529	\$15,210	\$36,063	\$44,632	16.8	33.35	1094.27	59.72
Milam	24,892	9,433	\$16,920	\$33,186	\$41,290	16.5	24.48	927.78	54.66
Mitchell	9,230	2,695	\$14,043	\$25,399	\$35,837	26.2	10.14	296.18	53.60
Moore	20,308	6,873	\$15,214	\$34,852	\$43,377	13.6	22.57	763.98	18.73
Morris	12,915	5,182	\$15,612	\$29,011	\$36,929	17.6	50.74	2035.92	80.77
Motley	1,260	524	\$16,584	\$28,348	\$34,551	19	1.27	52.96	100.00
Navarro	49,456	18,118	\$15,266	\$31,268	\$40,730	18.5	49.08	1798.02	50.72
Newton	13,752	5,108	\$13,381	\$28,500	\$35,524	22.3	14.74	547.63	100.00
Nolan	14,879	5,809	\$14,077	\$26,209	\$36,026	20.7	16.32	636.93	28.29
Ochiltree	9,613	3,496	\$16,707	\$38,013	\$51,680	12	10.48	380.98	17.78
Panola	23,084	8,949	\$15,439	\$31,909	\$42,917	13.9	28.82	1117.36	75.72
Parmer	9,224	3,046	\$14,184	\$30,813	\$40,346	14.2	10.46	345.43	62.70
Pecos	16,307	5,002	\$12,212	\$28,033	\$37,283	20.5	3.42	105.00	40.11
Polk	46,144	16,983	\$15,834	\$30,495	\$36,930	15.5	43.64	1606.35	89.16
Potter	120,918	43,402	\$14,947	\$29,492	\$36,988	22.5	132.99	4773.43	6.92
Presidio	7,467	2,564	\$9,558	\$19,860	\$27,490	21.3	1.94	66.50	53.23
Real	2,875	1,162	\$14,321	\$25,118	\$31,677	18.8	4.11	165.95	100.00
Red River	12,955	5,264	\$15,058	\$27,558	\$32,902	18.8	12.34	501.23	76.89
Reeves	11,062	3,449	\$10,811	\$23,306	\$31,057	27.5	4.20	130.85	24.21
Roberts	833	343	\$20,923	\$44,792	\$63,265	6.7	0.90	37.09	100.00
Robertson	15,693	6,018	\$14,714	\$28,886	\$37,219	20.5	18.36	704.25	76.49
Sabine	10,062	4,319	\$15,821	\$27,198	\$33,443	15.6	20.52	881.00	100.00

APPENDIX C

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San Augustine	8,576	3,469	\$15,548	\$27,025	\$30,306	24.2	16.25	657.22	100.00
San Jacinto	24,882	9,701	\$16,144	\$32,220	\$40,606	19.1	43.60	1699.92	100.00
San Saba	5,881	2,177	\$15,309	\$30,104	\$35,739	21.2	5.18	191.90	61.71
Scurry	15,973	5,613	\$15,871	\$31,646	\$42,565	18.3	17.70	621.90	28.80
Shackelford	3,105	1,215	\$16,341	\$30,479	\$43,294	11.5	3.40	132.93	100.00
Shelby	26,529	10,143	\$15,186	\$29,112	\$35,154	23.5	33.41	1277.27	80.79
Sherman	2,930	1,038	\$17,210	\$33,179	\$42,684	14.2	3.17	112.49	100.00
Stephens	9,585	3,634	\$15,475	\$29,583	\$38,168	17.5	10.71	406.22	39.79
Stonewall	1,440	604	\$16,094	\$27,935	\$37,325	16.7	1.57	65.74	100.00
Terrell	924	377	\$13,721	\$24,219	\$30,359	20.3	0.39	15.99	100.00
Terry	12,135	4,103	\$13,860	\$28,090	\$32,788	25	13.64	461.11	28.13
Throckmorton	1,667	688	\$17,719	\$28,277	\$34,865	14.3	1.83	75.36	100.00
Titus	29,793	10,135	\$15,501	\$32,452	\$40,295	15.2	72.57	2468.68	54.61
Tyler	20,470	7,621	\$15,367	\$29,808	\$36,730	20.2	22.18	825.73	88.15
Upshur	38,331	14,441	\$16,358	\$33,347	\$42,947	14.5	65.23	2457.50	79.82
Upton	3,149	1,154	\$14,274	\$28,977	\$43,137	14.8	2.54	92.91	100.00
Uvalde	26,461	8,722	\$12,557	\$27,164	\$33,121	23.8	17.00	560.37	37.27
Van Zandt	52,197	19,770	\$16,930	\$35,029	\$42,802	15.5	61.51	2329.55	80.20
Victoria	86,755	30,993	\$18,379	\$38,732	\$46,104	15.4	98.31	3511.91	25.93
Walker	64,212	19,059	\$14,508	\$31,468	\$38,244	23.5	81.54	2420.40	48.18
Ward	10,549	3,851	\$14,393	\$29,386	\$42,595	16.4	12.63	460.88	31.52
Washington	32,244	12,042	\$17,384	\$36,760	\$46,210	13.6	52.93	1976.58	58.53
Wheeler	4,772	1,931	\$16,083	\$31,029	\$43,124	12	5.22	211.19	100.00
Wilbarger	13,782	5,206	\$16,520	\$29,500	\$38,536	15.9	14.19	536.14	21.58
Willacy	20,600	5,748	\$9,421	\$22,114	\$29,079	30.6	34.52	963.25	54.85
Wilson	40,398	13,747	\$17,253	\$40,006	\$54,206	11.1	50.06	1703.49	83.88

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By County or County Equivalent**

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Winkler	6,675	2,409	\$13,725	\$30,591	\$45,917	14.5	7.94	286.46	18.92
Wood	42,461	16,843	\$17,702	\$32,885	\$41,529	14.5	65.30	2590.27	82.45
Young	17,579	7,016	\$16,710	\$30,499	\$39,898	15.2	19.06	760.65	33.80
Zapata	13,847	4,464	\$10,486	\$24,635	\$32,249	26.2	13.89	447.82	42.99
Zavala	11,678	3,422	\$10,034	\$16,844	\$23,083	33.5	8.99	263.53	38.18
Utah									
Carbon	19,549	7,120	\$15,325	\$34,036	\$45,621	13.3	13.22	481.59	42.48
Daggett	938	350	\$15,511	\$30,833	\$44,963	7.9	1.34	50.17	100.00
Duchesne	16,861	5,372	\$12,326	\$31,298	\$51,616	12.4	5.21	165.91	78.96
Emery	10,510	3,359	\$14,243	\$39,850	\$48,569	12	2.36	75.45	100.00
Garfield	4,658	1,562	\$13,439	\$35,180	\$43,312	10.9	0.90	30.19	100.00
Grand	9,589	3,893	\$17,356	\$32,387	\$38,540	14.2	2.60	105.75	28.11
Kane	6,577	2,432	\$15,455	\$34,247	\$45,337	10	1.65	60.93	68.83
Millard	12,082	3,755	\$13,408	\$36,178	\$46,823	12.7	1.83	56.98	75.85
Piute	1,404	492	\$12,697	\$29,625	\$36,139	16.7	1.85	64.94	100.00
Rich	2,205	734	\$16,267	\$39,766	\$53,159	9	2.14	71.39	100.00
San Juan	15,055	4,292	\$10,229	\$28,137	\$38,827	28.1	1.93	54.88	82.90
Uintah	29,885	9,628	\$13,571	\$34,518	\$57,769	10.1	6.68	215.04	53.09
Wayne	2,589	933	\$15,392	\$32,000	\$40,524	13	1.05	37.91	100.00
Virginia									
Amelia	12,808	4,764	\$18,858	\$40,252	\$49,180	9.6	35.90	1335.11	100.00
Appomattox	14,501	5,641	\$18,086	\$36,507	\$43,529	13	43.46	1690.40	100.00
Bath	4,544	1,848	\$23,092	\$35,013	\$42,446	9.6	8.54	347.46	100.00
Bedford city	6,312	2,525	\$15,423	\$28,792	\$36,559	18	916.38	36660.94	0.00
Craig	5,087	2,061	\$17,322	\$37,314	\$45,703	11.2	15.39	623.51	100.00
Highland	2,426	1,073	\$15,976	\$29,732	\$38,088	12.8	5.83	258.10	100.00

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Surry	7,128	2,717	\$16,682	\$37,558	\$52,004	11.6	25.54	973.51	100.00
Virgin Islands									
St. Croix Island	53,234	19,455	\$11,868	\$21,401	NA	NA	642.31	23474.00	11.98
St. John Island	4,197	1,735	\$18,012	\$32,482	NA	NA	213.98	8845.81	35.82
St. Thomas Island	51,181	19,458	\$14,061	\$26,893	NA	NA	1,638.46	62290.87	3.94
Washington									
Asotin	21,420	8,705	\$17,748	\$33,524	\$41,275	16.3	33.71	1370.15	6.86
Ferry	7,353	2,850	\$15,019	\$30,388	\$34,948	21.1	3.34	129.31	100.00
Wisconsin									
Buffalo	13,741	5,496	\$18,123	\$37,200	\$47,198	10	20.08	802.93	100.00
Burnett	16,196	6,819	\$17,712	\$34,218	\$41,276	14.1	19.71	830.02	100.00
Crawford	16,885	6,519	\$16,833	\$34,135	\$41,646	12	29.48	1138.27	67.77
Lafayette	15,871	6,112	\$16,811	\$37,220	\$47,796	9.2	25.05	964.63	100.00
Menominee	4,571	1,353	\$10,625	\$29,440	\$34,042	25.2	12.77	377.88	100.00
Pepin	7,357	2,833	\$18,288	\$37,609	\$49,943	9.7	31.67	1219.83	100.00
Trempealeau	27,790	11,088	\$17,681	\$37,889	\$48,650	9.6	37.86	1510.49	100.00
Vernon	29,090	11,219	\$15,859	\$33,178	\$43,402	14.4	36.60	1411.39	84.29
West Virginia									
Calhoun	7,212	2,934	\$11,491	\$21,578	\$26,023	21.3	25.70	1045.35	100.00
Clay	10,075	3,948	\$12,021	\$22,120	\$28,342	24.7	29.42	1153.06	100.00
Doddridge	7,201	2,774	\$13,507	\$26,744	\$32,226	21.3	22.47	865.76	100.00
Hardy	13,591	5,587	\$15,859	\$31,846	\$35,530	13.9	23.30	957.68	100.00
Pleasants	7,150	2,753	\$16,920	\$32,736	\$42,474	13.2	54.69	2105.75	56.00
Webster	9,394	3,892	\$12,284	\$21,055	\$26,037	27.9	16.90	700.10	100.00
Wyoming									
Big Horn	11,322	4,263	\$15,086	\$32,682	\$44,304	11.4	3.61	135.88	100.00

APPENDIX C

**Unserved Areas
By County or County Equivalent**

County or County Equivalent Areas ¹	Population ²	Households ³	Average Per Capita Income (1999) ⁴	Median Household Income (1999) ⁴	Median Household Income (2008) ⁴	Percent Living in Poverty (2008) ⁵	Household Density ⁶	Population Density ⁶	Percent Rural Housing ⁷
Crook	6,457	2,529	\$17,379	\$35,601	\$54,434	7.5	2.26	88.48	100.00
Natrona	73,129	29,458	\$18,913	\$36,619	\$51,486	8.8	13.69	551.66	15.13
Sublette	8,456	3,388	\$20,056	\$39,044	\$72,079	4.7	1.73	69.39	100.00
Weston	7,022	2,791	\$17,366	\$32,348	\$50,412	9.2	2.93	116.41	57.04

Technical Notes:

- 1) We examine a total of 3,230 counties or county equivalent areas, including 3,141 counties in the States and District of Columbia, 78 Municipal areas in Puerto Rico and 11 Municipal areas in American Samoa, Guam, Northern Mariana Islands and the U.S. Virgin Islands. We exclude two county equivalent areas in the Northern Mariana Islands (Rose Island Municipality and Northern Mariana Islands Municipality) due to data irregularities. As we work to improve our data, we anticipate that we will have a more precise identification of unserved areas. *See supra* Part III.B.2.a. & note 69.
- 2) We base our analysis on the most recent Census Bureau data available. We rely on Census Bureau 2008 population estimates for 3,140 counties in the 50 States and the District of Columbia, and 78 Municipalities in Puerto Rico. We rely on Census Bureau 2000 population estimates for a single county in Alaska and the 11 Municipal areas in American Samoa, Guam, Northern Mariana Islands and the U.S. Virginia Islands. *See* CENSUS BUREAU, POPULATION ESTIMATES DATA SETS, <http://www.census.gov/popest/datasets.html> (last visited Mar. 24, 2010).
- 3) We estimate households for 2008 by assuming that the relationship between household size and population size in each area has not changed between 2000 and 2008. Specifically, $\text{Households}_{2008} = \text{Population}_{2008} / \text{Household Size}_{2000}$, where $\text{Household Size}_{2000} = \text{Population}_{2000} / \text{Households}_{2000}$. For the 12 counties in which we do not have 2008 population estimates, we use Households based upon the 2000 Census. *See, e.g.*, CENSUS BUREAU, CENSUS 2000 SUMMARY FILE 1 (SF 1) 100-PERCENT DATA, http://factfinder.census.gov/servlet/DownloadDatasetServlet?_lang=en (last visited Mar. 24, 2010) (2000 Census Data).
- 4) We report two Income measures, Per Capita Income and Median Household Income. Per Capita Income and Median Household Income in 1999 dollars are reported for all county or county equivalent areas in the Census 2000 Summary File 3. *See, e.g.*, CENSUS BUREAU, CENSUS 2000 SUMMARY FILE 3, <http://www.census.gov/Press-Release/www/2002/sumfile3.html> (last visited Mar. 24, 2010). Median Household Income in 2008 dollars is available for 3,139 county or county equivalent areas. We do not have Median Household Income in 2008 for one county in Alaska and Hawaii, and all of the U.S. territories. *See* CENSUS BUREAU, SMALL AREA INCOME AND POVERTY ESTIMATES: STATE AND COUNTY ESTIMATES FOR 2008, <http://www.census.gov/did/www/saife/data/statecounty/data/2008.html> (last visited Mar. 24, 2010).
- 5) Proportion of Population Living in Poverty in 2008 is reported by the Census Bureau for 3,139 of the 3,230 county or county equivalent areas. *Id.*

- 6) Household density is defined as the ratio of households to the total land area in the county. Population Density is defined as the ratio of population to the total land area in the area. These estimates are based upon the most recent Census Bureau data available. *See supra* Technical Notes 2 and 3.
- 7) Rural Housing Proportion is defined as the number of housing units categorized as rural by the Census Bureau divided by the total number of housing units in the county. *See* 2000 Census Data; *supra* Technical Note 3.

APPENDIX D

**Commission's Report on High-Speed Services for Internet Access:
Status as of December 31, 2008**

High-Speed Services for Internet Access: Status as of December 31, 2008

Industry Analysis and Technology Division
Wireline Competition Bureau
February 2010



This report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street, SW, Washington, DC. Copies may be purchased by contacting Best Copy and Printing, Inc., 445 12th Street, SW, Room CY-B402, Washington, DC 20554, telephone (800) 378-3160, or via their website at www.bcpiweb.com. The report can also be downloaded from the Wireline Competition Bureau Statistical Reports Internet site at www.fcc.gov/wcb/stats.

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High-Speed Services for Internet Access: Status as of December 31, 2008

Introduction. Congress directed the Commission and the states, in section 706 of the Telecommunications Act of 1996,¹ to encourage deployment of advanced telecommunications capability in the United States on a reasonable and timely basis. To assist in its evaluation of such deployment, in 2000 the Commission instituted a formal data collection program (FCC Form 477),² which gathers standardized information about subscribership to high-speed Internet access services from telephone companies, cable system operators, terrestrial wireless service providers, satellite service providers, and any other facilities-based providers of advanced telecommunications capability.³ This report summarizes information reported for December 31, 2008, which, for the first time, includes details about subscribership differences among census tracts and counties, as well as states.

¹ 47 U.S.C. § 1302(b). Section 706 of the Telecommunications Act of 1996, Pub. L. No. 104-104, title VII, Sec. 706, 110 Stat. 56, 153 (1996) (1996 Act), as amended in relevant part by the Broadband Data Improvement Act, Pub. L. No. 110-385, 122 Stat. 4096 (2008) (BDIA), is now codified in Title 47, Chapter 12 of the United States Code. See 47 U.S.C. § 1301 *et. seq.* Prior to the BDIA, section 706 was reproduced in the notes to section 157 of the Communications Act of 1934, as amended (the Act). 47 U.S.C. § 157 nt. (2008).

² *Local Competition and Broadband Reporting*, CC Docket No. 99-301, Report and Order, 15 FCC Rcd 7717 (2000); *Local Telephone Competition and Broadband Reporting*, WC Docket No. 04-141, Report and Order, 19 FCC Rcd 22340 (2004). Qualifying entities file FCC Form 477 each year on March 1 (reporting data for the preceding December 31) and September 1 (reporting data for June 30 of the same year). The first data collected were as of December 31, 1999.

³ Form 477 collects, and this report summarizes, information about Internet access connections *in service* to end-user locations that are advertised to deliver information to and/or from the end user – that is, in at least one direction – at transfer rates (“speeds”) above 200 kilobits per second (kbps). Information is collected about connections in several sub-groupings (“speed tiers”) defined by ranges of upstream speeds and downstream speeds. Connections are further categorized by the technology employed by the part of the connection that terminates at the end-user location. See Technical Notes, at the end of this report, for information about the technology categories. To provide continuity with published historical data, this particular report uses the term “high-speed” to describe all reported connections and, additionally, uses the term “advanced services” to describe the subset of connections with advertised speeds above 200 kbps both to and from the end user (but not necessarily the same speed in each direction). (Consistent with the Form 477 data collection orders, “broadband” and “high-speed” are synonyms in footnotes that discuss particular elements of those orders.)

In the Form 477 data collection, “end users” are residential, business, institutional, or government entities who use services for their own purposes and who do not resell such services to other entities. The “facilities-based” provider of a connection is the entity that owns the portion of the physical facility that terminates at the end-user location, obtains an unbundled network element (UNE), special access line, or other leased facility that terminates at the end-user location and provisions/equips it as broadband, or provisions/equips a broadband wireless channel to the end-user location over licensed spectrum or over spectrum that the provider uses on an unlicensed basis. The facilities-based providers report information about connections they provide directly to their own end-user customers and also connections that they provide to Internet Service Providers (ISPs) for resale to end users, and ISPs who are not themselves facilities-based providers do not report. These requirements avoid double-counting of end user connections. When the service retailer is such a reseller ISP, connections must be reported as residential or business connections based on the status of the end user of the ISP’s retail Internet access service.

Major modifications to the data collection. For June 30 and December 31 dates from December 1999 through June 2008, Form 477 filers were required to report numbers of high-speed connections in service to end-user locations in each state, broken down by speed tier and technology, and to identify all ZIP Codes in which they had at least one high-speed connection in service to an end-user location.⁴ The Commission and others have recognized these requirements as insufficiently granular or precise to inform necessary policymaking, and, in 2008, the Commission significantly improved the data collection.⁵ The statistics reported here reflect data as of December 31, 2008, and are the first to be based on data collected under the modified Form 477 requirements.

The Commission improved three elements of the data collection:

- Providers of fixed-location high-speed Internet access connections now report the number of connections in service at the census tract level as well as at the state level. Consequently, this report summarizes information about fixed-location connections in 3,232 counties and 66,287 census tracts.⁶
- All filers report connections in accordance with an increased number of upload and download transmission speed categories, which now total 72.
- Mobile wireless service providers report more specific information about mobile wireless Internet access service, as discussed below.⁷

⁴ For the data through June 2008, the Commission required mobile wireless providers to report the number of subscribers by state and to provide a list of the ZIP Codes that best represented the areas where the provider's mobile wireless broadband service was advertised and *available* to actual and potential subscribers. Also to obtain information about service availability, as opposed to subscribership, the Commission required incumbent telephone companies to report (starting with the June 30, 2005 data) the extent to which their Digital Subscriber Line service – including both asymmetric DSL (“aDSL” in this report) and symmetric DSL (“sDSL” in this report) – was available to the housing units in their local telephone service area in the state, and required cable system operators to report the extent to which their cable modem service was available to the housing units in their cable TV service area in the state.

⁵ *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscribership Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscribership*, WC Docket No. 07-38, Report and Order, 23 FCC Rcd 9691 (2008); Order on Reconsideration, 23 FCC Rcd 9800 (2008). Effective with the filing of data as of December 31, 2008, Form 477 is a Web-based electronic filing system. Information about system mechanics and detailed reporting requirements is available at <http://www.fcc.gov/form477/>.

⁶ According to the Census Bureau, there are 66,438 census tracts in the United States, Puerto Rico, and the Island Areas (e.g., the U.S. Virgin Islands); see “Definition: Census tract” in results for “census tract” keyword search at <http://www.census.gov/> (visited Oct. 26, 2009). For the 2000 decennial census, the Census Bureau assigned a default census tract code of 000000 to some coastal and Great Lakes water and territorial sea, and these default-code tracts are not included in the statistics in this report.

⁷ See pp. 3-4.

In conjunction with measures underway pursuant to the Broadband Data Improvement Act and the Recovery Act,⁸ data collected by the modified Form 477 provide the Commission and the public with a more valuable resource than prior collections for evaluating the state of broadband in the country. For example, the statistics reported here depict subscribership to high-speed Internet access services at finer levels of geographic detail than was previously possible using the Form 477 data. They also provide more detailed information about connection speeds, including, in particular, information about connections that meet the “broadband service” definition (advertised speeds of at least 768 kilobits per second (kbps) downstream and 200 kbps upstream to end users) that the Rural Utilities Service, Department of Agriculture, and the National Telecommunications and Information Administration, Department of Commerce, have adopted to implement the stimulus funding for broadband deployment provisions of the Recovery Act.⁹

Implications for trends analysis. Readers interested in historical trends in the Form 477 data should note certain changes to the reporting requirements that were effective in 2005 and in 2008.

First, the historical series presented in this report begin with data as of June 30, 2005. In earlier data from this collection, providers with fewer than 250 high-speed connections in service in a particular state were not required to report data for that state.¹⁰ Readers may refer to previous releases of this report for the more extensive data, from December 31, 1999, onward.¹¹

Second, the modifications adopted for the December 31, 2008, and later, data have caused a one-time decrease in the reported number of high-speed mobile wireless Internet access service connections, from about 60 million in June 2008 to about 25 million in December 2008.¹² For reporting periods through June 30, 2008, Form 477 had instructed mobile wireless providers to report the number of subscribers whose mobile device (such as a wireless modem laptop card, smartphone, or handset) was capable of sending or receiving data at speeds above 200 kbps. The Commission found these instructions insufficiently precise to enable it to determine, from the reported data, the number of subscribers making regular use of Internet access service above 200 kbps as part of their mobile service package. Starting with the December 31, 2008 data, therefore, Form 477 requires mobile wireless providers to report the number of subscribers that have a capable device (as discussed above) for which the subscription includes

⁸ See 47 U.S.C. § 1301 *et seq.* (Broadband Data Improvement Act); American Recovery and Reinvestment Act of 2008, Pub.L. 111-5, 123 Stat. 115 (2009) (Recovery Act).

⁹ See Department of Agriculture, Rural Utilities Service, Broadband Initiatives Program, RIN: 00572-ZA01, Department of Commerce, National Telecommunications and Information Administration, Broadband Technology Opportunities Program, RIN: 0660-ZA28, Notice of Funds Availability, 74 Fed. Reg. 33104 (July 9, 2009) (NTIA/RUS BTOP/BIP NOFA or NOFA).

¹⁰ Eliminating the reporting threshold resulted in the number of filers more than doubling. However, as of June 30, 2005, filers with fewer than 250 connections in a state (including some entities that previously made voluntary submissions) represented about 0.2% of total reported high-speed connections.

¹¹ Previous releases of this report are available at <http://www.fcc.gov/wcb/iatd/comp.html>. Individual reports may include revisions of previously published statistics.

¹² See Table 1. The one-time decrease in high-speed mobile wireless Internet access connections is, in turn, reflected in a one-time decrease in total high-speed Internet access connections for all technologies combined.

a data plan for transferring, on a monthly basis,¹³ either a specified or an unlimited amount of data to and from Internet sites of the subscriber's choice, and *excluding* subscribers whose choice of content is restricted to only customized-for-mobile content (for example, text and multimedia messaging, or the capacity to download ringtones and games). In this report, we refer to these subscribers as having high-speed service subscriptions for full Internet access.¹⁴

Starting with the December 31, 2008, data, providers also must report, explicitly and separately, total subscribers with a device capable of a high-speed connection, irrespective of the service plan purchased. The number of such devices reported for December 2008 was about 86 million. That figure is not directly comparable to mobile wireless connections reported for June 2008 or earlier reporting periods, however, because individual providers – to a varying and largely unknown degree – included or excluded subscribers with service plans for less than full Internet access in the earlier data.

Finally, the Form 477 modifications adopted for the December 31, 2008, and later, data specify how mobile wireless providers should distinguish between residential subscribers and other subscribers, and some of these providers consequently reported a larger share of residential subscribers than they had reported for earlier dates.¹⁵

Census tracts and counties. The December 31, 2008 data are the most comprehensive to date, with some 1,556 entities submitting 4,491 state-level filings, of which 4,209 included subscription information at the census tract level of detail.¹⁶ We present statistics for census tracts where practicable

¹³ The Form 477 instructions do not distinguish between prepaid and postpaid monthly service plans.

¹⁴ As compared to the modified Form 477 (that is, starting with the December 31, 2008 data), other sources may estimate larger numbers of mobile wireless Internet access service subscribers under less-specific definitions. For example, Nielsen Mobile estimated that, as of May 2008, 15.6% of mobile telephony subscribers (or 40 million subscribers) paid for access to the mobile Internet, either as part of a subscription or on a per-transaction basis, and used a mobile Internet service in the past 30 days. (See, for example, the Commission's Thirteenth Annual CMRS Competition Report, at p. 97; available at http://wireless.fcc.gov/index.htm?job=cmrs_reports.) By contrast, in their Form 477 filings, mobile wireless providers reported that 25 million subscribers had mobile devices with high-speed data plans for full Internet access at year-end 2008.

¹⁵ For reporting data through June 30, 2008, the Form 477 instructions allowed mobile wireless providers to estimate the share of subscribers who were residential end users (as opposed to business, government, or institutional end users) based on marketing information (for example, those subscribers who purchased service plans the provider designed primarily to attract residential end users). The Commission observed that the aggregate residential percentage reported under those guidelines (for example, about 11% in the June 30, 2006 data) could understate residential subscribership. Therefore, starting with the December 31, 2008, data, Form 477 requires mobile wireless providers to report, as residential, those subscriptions the provider *does not* bill to a corporate, non-corporate business, government, or institutional account. In the data reported for December 31, 2008, the aggregate residential percentage reported was 63% (compare Table 3 to Table 1).

¹⁶ Because mobile service subscribers may move within and among broadband service areas, the Commission decided, in the 2008 Form 477 modifications, to continue to require mobile wireless service providers to report the number of connections they provide in individual states (with the state determined by the billing address associated with the service subscription) but not the number of subscribers located in individual census tracts. However, each facilities-based mobile wireless provider must report the census tracts in the state that best represent the areas where service is available over the provider's own network, for each of the speed tiers in which the provider offers service.